

Title (en)
HORIZONTAL CONNECTING DEVICE

Title (de)
HORIZONTALVERBINDUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE RACCORDEMENT HORIZONTAL

Publication
EP 2486315 A4 20170329 (EN)

Application
EP 10822288 A 20101006

Priority
• NO 20093107 A 20091007
• NO 2010000355 W 20101006

Abstract (en)
[origin: WO2011043671A1] A connecting device (10) for mating and connection on the sea bed of a first and second pipeline having first and second pipe ends (E1; E2) at the connection point, is shown. The connecting device (10) includes a first connecting part (1) retaining the first end (E1); a second submersible connecting part (2) retaining the second end (E2) and a connector (3) which is arranged between the connecting parts (1, 2) for final connection between the pipe ends (E1; E2). A guiding device (5) engage with a guiding structure (4) during a lowering motion of the second connecting part (2) towards the first connecting part (1) and pivots the second connecting part (2) into coarse alignment of the second pipe end (E2) in a direction towards the first pipe end (E1) such that the first and second pipelines are brought to align with each other on the sea bed. An adjacent ramp structure (6) with abutment surfaces and guiding means cooperate with the second connecting part (2) and contribute to fine alignment of the pipe ends (E1, E2).

IPC 8 full level
F16L 1/26 (2006.01); **E21B 43/013** (2006.01)

CPC (source: EP US)
E21B 43/0107 (2013.01 - EP US); **E21B 43/013** (2013.01 - EP US); **F16L 1/26** (2013.01 - EP US)

Citation (search report)
• [X] NO 316939 B1 20040628 - KVAERNER OILFIELD PROD AS [NO]
• [X] GB 2347183 A 20000830 - FMC CORP [US]
• See references of WO 2011043671A1

Cited by
US11230907B2; CN114258452A; EP4004334A4; WO2021016341A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2011043671 A1 20110414; AU 2010304028 A1 20120329; AU 2010304028 B2 20160317; BR 112012008199 A2 20160301;
BR 112012008199 B1 20200324; CA 2774875 A1 20110414; CA 2774875 C 20180424; CN 102575795 A 20120711; CN 102575795 B 20141231;
EP 2486315 A1 20120815; EP 2486315 A4 20170329; EP 2486315 B1 20190529; MY 160029 A 20170215; NO 20093107 A1 20110408;
NO 333113 B1 20130304; RU 2012110026 A 20131120; RU 2539413 C2 20150120; SG 179025 A1 20120427; US 2012199358 A1 20120809;
US 9080699 B2 20150714

DOCDB simple family (application)
NO 2010000355 W 20101006; AU 2010304028 A 20101006; BR 112012008199 A 20101006; CA 2774875 A 20101006;
CN 201080044376 A 20101006; EP 10822288 A 20101006; MY PI2012000947 A 20101006; NO 20093107 A 20091007;
RU 2012110026 A 20101006; SG 2012016002 A 20101006; US 201013500654 A 20101006